Good for all grades

Intro: Mental Math Using Number Bonds

https://greatminds.org/video_gallery/2242/play

Grades 2 -5, Intro: Introduction to Place Value Disks

https://greatminds.org/video_gallery/1186/play

Grades 2 - 5, Intro: Place Value Disks (Place Value Disks with Place Value Charts)

https://greatminds.org/video_gallery/1178/play

Grades K-2

Addition and Subtraction with Five Groups

Grades 3-5

Intro: Solving Word Problems with Tape Diagrams

https://greatminds.org/video_gallery?utf8=%E2%9C%93&query=tape+diagrams

Intro: Array and Area Models

https://greatminds.org/video_gallery?utf8=%E2%9C%93&query=area+models

Other Videos
Kindergarten

Module 1

A Parent's Guide to Rekenreks - source WSKG Public Media

Model with a 10 Frame - source WSKG

How to Make a Rekenrek - source WSKG

Zero the Hero - source WSKG

Magic Math Fingers - source WSKG

Module 2

Shape Hunt source WSKG

Describing Relative Position source WSKG

Module 3

More Fewer Same source WSKG

Module 4

Number Partners to 10 source WSKG

Number Bonds source WSKG

Using Number Bonds to Show Subtraction source WSKG

Module 5

[Counting On](#) source WSKG

Module 6

First Grade
Module 1
[Mental Math Make a 10](#) source WSKG
[How to Solve a Story Problem](#) source WSKG
[1 Fact Family 8 Number Sentences](#) source WSKG
[Fact Family Photos](#)

Module 2
[Understanding Place Value](#)

Module 3

Module 4
[Modeling with Tape Diagrams](#) source WSKG

Module 5
[Shape Hunt](#) source WSKG

Second Grade
Module 1
[Tape Diagrams: Modeling 2-Digit Addition and Subtraction](#) WSKG
[Regrouping to subtract](#) WSKG
[Add within 20 by regrouping on a ten frame](#) Learnzillion
[Solve word problems by drawing bar models](#) Learnzillion
[Add within 100 using base ten blocks](#) Learnzillion
[Understand a word problem](#) Learnzillion

Module 2
[Solve addition problems using a number line](#) Learnzillion
[Solve addition story problems using an open number line](#) Learnzillion
[Measure with non standard units](#) Learnzillion
[Measure using a ruler](#) Learnzillion
[Find the difference in the length of two objects using addition …](#) Learnzillion
[Measuring objects using whole, half, and quarter inches](#) Learnzillion

Module 3

Number Forms WSKG
Count Objects by 5s, 10s, and 100s Learnzillion
Understanding place value Learnzillion
Model and write numbers using base ten blocks Learnzillion
Count objects in groups of ten Learnzillion
Understand the value of a number Learnzillion
Compare two 3-digit numbers by comparing number parts Learnzillion

Module 4
Tape Diagrams: Modeling 2-Digit Addition and Subtraction WSKG
Place Value Chart WSKG
Add up to four 2-digit numbers using place value Learnzillion
Add three-digit numbers with base ten blocks Learnzillion
Mentally add 10 or 100 visualizing base ten blocks Learnzillion
Explain addition using the commutative and associative properties … Learnzillion

Module 5

Module 6
Foundation of Multiplication and Division WSKG
Recognize even and odd numbers by forming partners and equal … Learnzillion
Use repeated addition to find the total number of objects in an array … Learnzillion

Module 7
Compare picture graphs and bar graphs Learnzillion

Module 8
Distinguish between a.m. and p.m. Learnzillion
Tell time to the nearest 5 minutes using analog and digital clocks … Learnzillion

Third Grade
Module 1
Interpret Products by Drawing Pictures Learnzillion
Interpret Products by Using Repeated Addition Learnzillion
Interpret Products Using Arrays Learnzillion
Solve Division Problems by Drawing Pictures Learnzillion
Interpret Division as an Unknown Factor Problem using arrays Learnzillion
Represent Multiplication Using Arrays Learnzillion
Understand the commutative property of multiplication in word problems Learnzillion

[Find the missing quotient in a division problem](#) Learnzillion
[Understand multiplication problems: using equal groups](#) Learnzillion
[Solve word problems using the idea of equal groups](#) Learnzillion
[Solving two-step word problems using a model](#) Learnzillion
[Multiplication Fluency](#) WSKG
[Rounding: Nearest 10 or 100](#) WSKG
[Solving 2-Step Word Problems](#) WSKG

Module 2
[Identifying the start time, change of time, and end time in real-world elapsed time problems](#)
Learnzillion
[Solving elapsed time word problems to the nearest hour](#) Learnzillion
[Solving elapsed time word problems to the nearest five minutes](#) Learnzillion
[Solving elapsed time word problems to the nearest minute](#) Learnzillion
[Understand volume and how volume is measured](#) Learnzillion
[Understand mass and how mass is measured](#) Learnzillion
[Find the mass of an object using a balance scale](#) Learnzillion
[Find the volume of liquids](#) Learnzillion
[Understand the value of a digit in a multi-digit number](#) Learnzillion
[Find benchmark numbers using a number line](#) Learnzillion
[Round to the nearest ten or hundred in real world situations](#) Learnzillion
[Solve subtraction problems using a number line](#) Learnzillion
[Solve addition problems with numbers up to 1,000: regrouping …](#) Learnzillion

Module 3
[Solve multiplication problems: using distributive property](#) Learnzillion
[Understand the commutative property of multiplication in word problems](#) Learnzillion
[Solve multiplication problems: using distributive property](#) Learnzillion
[Find the missing quotient in a division problem](#) Learnzillion
[Identify patterns on a multiplication chart](#) Learnzillion
[Multiply by multiples of 10 using number lines](#) Learnzillion
[Identify patterns on an addition chart](#) Learnzillion
[Identify patterns on a multiplication chart](#) Learnzillion
[Multiplying by Multiples of 10](#) Khan Academy

Module 4
[Counting unit squares to find area](#) Khan Academy
[Intro to area and unit squares](#) Khan Academy
[Cover the area of a shape using square units](#) Learnzillion
[Find the area of a square or rectangle by counting](#) Learnzillion
[Relate area to arrays](#) Learnzillion
[Find the area of a square or rectangle by counting unit squares](#) Learnzillion

[Relate area to arrays](#) Learnzillion
[Given the area, find missing side lengths of a rectangle](#) Learnzillion

Module 5
[Represent fractions in different ways](#) Learnzillion
[Write unit fractions: using shapes](#) Learnzillion
[Identify equivalent fractions using fraction models](#) Learnzillion
[Identify equivalent fractions using fraction strips](#) Learnzillion
[Identify equivalent fractions using a number line](#) Learnzillion
[Use fraction strips to generate equivalent fractions](#) Learnzillion
[Express whole numbers as fractions](#) Learnzillion
[Plot a unit fraction on a number line](#) Learnzillion
[Identify a fraction as a point on a number line by dividing the number …](#) Learnzillion
[Place fractions on a number line](#) Learnzillion
[Plot fractions greater than one on a number line](#) Learnzillion
[Recognize equivalent fractions using area models](#) Learnzillion
[Recognize equivalent fractions using number lines](#) Learnzillion
[Compare unit fractions](#) Learnzillion
[Fractions](#) WSKG
[Fractions of a Number Line](#) WSKG

Module 6
[Draw bars on a graph](#) Learnzillion
[Measuring objects using whole, half, and quarter inches](#) Learnzillion
[Construct and interpret a line plot](#) Learnzillion

Module 7
[Find the perimeter of a square or rectangle by adding side lengths …](#) Learnzillion
[Find the perimeter of a polygon with more than 4 sides](#) Learnzillion
[Find perimeter with missing side lengths](#) Learnzillion
[Use a chart to understand how rectangles can have the same …](#) Learnzillion

Grade 4
Module 1
[Connecting the Standard Algorithm for Multiplication to Area Models](#) Engageny
[Area Model](#) WSKG
[Read and write numbers in expanded form](#) Learnzillion
[Read and write numbers in numeric form](#) Learnzillion
[Round in real-life situations](#) Learnzillion
[Round numbers to a specified place on a number line](#) Learnzillion

[Round numbers to the leading digit using a number line](#) Learnzillion
[Add using the standard addition algorithm](#) Learnzillion
[Solve multi-step word problems by organizing the data](#) Learnzillion

Module 2
[Making Sense of Money](#) WSKG
[Units of Measure](#) WSKG
[Recognize common units of measurement](#) Learnzillion
[Compare and convert customary units of length](#) Learnzillion
[Compare and convert metric units of length](#) Learnzillion
[Compare and convert customary units of weight](#) Learnzillion
[Convert measurements to solve distance problems](#) Learnzillion
[Convert a smaller metric unit to a larger unit](#) Learnzillion
[Select appropriate measurement conversions](#) Learnzillion
[Solve real world distance problems with unit conversions](#) Learnzillion

Module 3
[Partial Products](#) WSKG
[Model numbers using base ten blocks](#) Learnzillion
[Understand relationships between digits and their place value](#) Learnzillion
[Find all factor pairs of a number using a t-chart](#) Learnzillion
[Find all the factor pairs of a number using area models](#) Learnzillion
[Determine if a number is prime or composite using …](#) Learnzillion
[Find the perimeter of a rectangle using an area model](#) Learnzillion
[Find missing side lengths using the formula for perimeter](#) Learnzillion
[Use area models to find the area of rectangles](#) Learnzillion
[Find the area of a rectangle using the standard formula](#) Learnzillion

Module 4
[Identify angles using angle characteristics](#) Learnzillion
[Measure full and half rotations](#) Learnzillion
[Introduction to protractors](#) Learnzillion
[Measure angles to the nearest degree with protractors](#) Learnzillion
[Compose and decompose angles](#) Learnzillion

Module 5
[Decomposing Fractions](#) WSKG
[Find the rule for a function machine using a vertical …](#) Learnzillion
[Write fractions greater than one as mixed numbers](#) Learnzillion
[Write a fraction to describe part of a set](#) Learnzillion
[Compare fractions to a benchmark of one half using number lines …](#) Learnzillion
[Add fractions by joining parts](#) Learnzillion

Decompose fractions into unit fractions Learnzillion
Represent fractions as the sum of unit fractions using pictures … Learnzillion
Add mixed numbers using an area model Learnzillion
Compare fractions with the same numerator: using the greater than ...Learnzillion
Use a fraction model for multiplication of fractions and whole numbers … Learnzillion
Multiply fractions by whole numbers: using models Learnzillion
Create a line plot with fractions of a unit (with like denominators … Learnzillion
Solve problems by interpreting data on a line plot Learnzillion

Module 6
Convert fractions into decimals to the tenths place :Learnzillion
Convert fractions into decimals to the hundredths place Learnzillion
Convert decimals to fractions to the hundredths place using visual aids … Learnzillion
Compare two decimals to the hundredths place using fraction models … Learnzillion

Module 7

Grade 5
Module 1
Comparing decimal place value Khan Academy
Recognize place value relationships by multiplying and dividing by ten Learnzillion
Represent powers of 10 using whole number exponents Learnzillion
Write decimal in expanded form Khan Academy
Recognize place value relationships by multiplying and dividing by ten Learnzillion
Represent powers of 10 using whole number exponents Learnzillion
Decimals: Expanding Place Value Khan Academy
Rounding on a Vertical Number Line 5th Grade Videos
Add decimals using base ten blocks Learnzillion
Dividing Decimals 5th Grade Videos
Use an area model for multiplication of two-digit numbers by two-digit Learnzillion
Compare the value of the digits in a multi-digit whole number Learnzillion
Understand the value of a digit using a place-value chart Learnzillion
Determine the value of a digit in the thousandths place Learnzillion
Understand the value of a digit in a decimal number Learnzillion
Understand that place value increases ten times with each shift to the … Learnzillion
Understand that a digit in one place is 1/10 the value of the digit to the … Learnzillion
Explain patterns in zeros when multiplying by a power of ten … Learnzillion
Multiply decimal numbers by a power of ten Learnzillion

Module 2
Multiplying multi digit numbers Khan Academy
Multiply decimals by whole numbers by using an area model Learnzillion
Multiplying decimals by multi- digit whole numbers 5th grade videos

Solve real world distance problems with unit conversions Learnzillion
Divide 4-digit dividends by 2-digit divisors by setting up an equation Learnzillion

Module 3
Add fractions with unlike denominators by creating area models Learnzillion
Add fractions with different denominators using fraction bars … Learnzillion
Add fractions with unlike denominators using fraction bars … Learnzillion
Add and subtract fractions with like denominators Learnzillion
Add and subtract fractions with unlike denominators Learnzillion

Module 4
Understanding fractions as division Khan Academy
multiplying unit fractions and whole numbers Khan Academy
Multiplying 2 fractions 5/6 x 2/3 Khan Academy
Multiplying fractions by whole numbers Khan Academy
Understand fractions as division Learnzillion
Multiply by fractions: using repeated addition Learnzillion
Multiply fractions by fractions: using a sequence of operations … Learnzillion
Multiply fractions by fractions: finding a part of a part Learnzillion
Understand how numbers scale using multiplication and visual … Learnzillion
Predict the product of multiplying a fraction less than one by a whole … Learnzillion
Multiply a fraction by a fraction using visual representations Learnzillion
Multiply mixed numbers by mixed numbers using visual Learnzillion
Draw pictures for division of unit fractions Learnzillion
Solve word problems involving division of whole numbers by fractions … Learnzillion
Represent decimal values to the thousandths using base ten blocks … Learnzillion
Write decimals in expanded form Learnzillion
Write decimals in expanded notation Learnzillion
Round numbers to the nearest whole number Learnzillion
Round decimals to the nearest tenth Learnzillion
Round decimals to the nearest hundredth Learnzillion
Add decimals using base ten blocks Learnzillion
Multiply decimals by whole numbers by using an area model … Learnzillion
Use an area model to multiply decimals by decimals Learnzillion
Divide decimals using knowledge of multiplication Learnzillion

Module 5
Identify the difference between a square unit and a cubic unit … Learnzillion
Understanding volume Learnzillion
Find volume by counting cubes Learnzillion
Count unit cubes in a rectangular prism Learnzillion
Identify and label three-dimensional figures Learnzillion
Recognize that volume is additive by finding the volume of a 3D figure … Learnzillion

Module 6